

The grader is mainly used for the ground leveling and ditching, slope scraping, bulldozing, soil loosing, snow removal and others of large areas of highways, airports and farmlands etc. It is indispensable to the building construction of national defense construction, mine construction and urban and rural road and others, as well as the water conservancy construction and farmland improvement etc.

平地机主要用于公路、机场、农田等大面积的地面平整和挖 沟、刮坡、推土、松土、除雪等作业。是国防工程、矿山建 设、城乡道路等建筑施工和水利建设、农田改良等所必须的工 程机械。

#### **Performance** Characteristics /性能特点

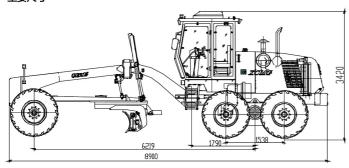
- It is equipped with National III turbo-charging diesel engine. With large output torque and great power reserve coefficient, the fuel consumption is
- The drive axle is the dedicated rear axle of XCMG, and the rear axle operates in the manner of equalizing suspension system to guarantee uniform load of the four wheels and fully give play to its adhesive ability. The main drive of rear axle is equipped with "NO—SPIN" self-locking differential mechanism. In case of wheel-slip in one side, wheels in the other side can still transmit the original torque. Therefore, sufficient traction can be guaranteed for the whole machine regardless of the pavement conditions.
- The front axle is a steering axle. The axle can swing from left to right. In addition to the front-wheel steering, the machine is also equipped with articulated frame, which can further reduce the radius of turning circle.
- The hood is composed of structural components, with attractive and smooth appearance, side doors and rotatable feature as a whole and maintainability is enhanced.
- The cab is a closed one equipped with the air conditioning system, and the interiors are compression molding parts with smooth appearance, fully meeting the requirement of ergonomics.
- 采用国Ⅲ涡轮增压柴油机。输出扭矩和功率储备系数大,油耗低。
- 驱动桥为徐工专用后桥,后轴采用平衡悬挂方式能够保证四个车轮负荷均匀,有利于充分
- 发挥它的附着能力。后桥主传动装有"NO—SPIN"无自转自锁差速器。当一侧车轮打滑 时,另一侧车轮仍然能传递其原有扭矩。因此,无论路面情况如何均能保证整机有足够的 牵引力。
- 前桥为转向桥。桥体可左右摆动。该机除前轮转向外,还采用了铰接车架,可使转弯半径
- 机罩采用结构件,造型美观流畅,两侧开侧门,整体可翻转,提高了维修性。
- 采用密封驾驶室,配置空调系统,内饰件为造型流畅的压塑件,充分体现了人机工程的需

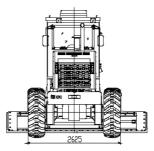
# **GR1653**

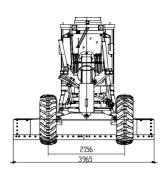
### **MOTOR GRADER**

平地机

## Main Dimensions







## Main Specifications 主要技术参数

	Item	项目		GR1653
Basic parameters 基本参数	Engine model	发动机型	빌号	SC7H180.1G3
	Rated power/speed	额定功率	区/转速	132kW/2000rpm
	Overall dimension (standard)	整机外型	型尺寸(标配)	8900x2625x3420
	Total weight (standard) 整机重量 (标配)		量(标配)	14500 kg
	Tire specification	轮胎规格	Z	17.5–25
	Ground clearance (front axle)	离地间隙	(前桥)	430mm
	Tread	轮距		2156mm
	Space of front and rear axles	前后桥距	=	6219 mm
	Space of middle and rear wheels	e of middle and rear wheels 中后轮距		1538 mm
Performance parameters 性能参数	Forward velocity 前进速度		5、8、11、19、23、38km/h	
	Reverse speed 后退速度		Ę	5、11、23km/h
	Tractive effort f=0.75	牵引力f=	=0.75	77 kN
	Maximum gradeability	最大爬坡	<b></b>	20%
	Inflation pressure of tires	轮胎充气	压力	260kPa
	Working system pressure	工作系统	压力	20MPa
	Transmission pressure 变速箱压力		1.3—1.8Mpa	
Working parameters 工作参数	Maximum steering angle of front wheels 前轮最大转向角		转向角	± 48°
	Maximum inclination angle of front wheels	前轮最大	に倾斜角	± 17°
	Maximum swing angle of front axle	前桥最大	摆动角	± 15°
	Maximum swing angle of balance box	平衡箱最	是大摆动角	Front 15°, rear 15°
	Maximum steering angle of frame	车架最大	转向角	15° ±27°
	Minimum turning radius	最小转弯	<b>管半</b> 径	7.1m
	Maximum lifting height		最大提升高度	400mm
	Maximum shoveling depth		最大铲土深度	500mm
	Blade Maximum lateral inclination angle	铲刀	最大侧倾角度	90°
	Cutting angle	N /J	切削角	28° —70°
	Slewing angle		回转角	360°
	Length × chord height		长度x弦高	3660x610mm
Oil filling amount 加注油量	Coolant	冷却液		50L
	Fuel tank	燃油箱		280L
	Engine	发动机		24L
	Transmission	变速箱		38L
	Balance box	平衡箱		46L
	Drive axle	驱动桥		28L
	Hydraulic oil	液压油		110L